

Standard Plans List

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSP) listed below are included in the project plans.

ABBREVIATIONS, LINES, SYMBOLS AND LEGEND	
A10A	Abbreviations (Sheet 1 of 2)
A10B	Abbreviations (Sheet 2 of 2)
A10C	Lines and Symbols (Sheet 1 of 3)
A10D	Lines and Symbols (Sheet 2 of 3)
A10E	Lines and Symbols (Sheet 3 of 3)
A10F	Legend - Soil (Sheet 1 of 2)
A10G	Legend - Soil (Sheet 2 of 2)
A10H	Legend - Rock
A62B	Limits of Payment for Excavation and Backfill - Bridge Surcharge and Wall
A62C	Limits of Payment for Excavation and Backfill - Bridge
TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN	
T1A	Temporary Crash Cushion, Sand Filled (Unidirectional)
T1B	Temporary Crash Cushion, Sand Filled (Bidirectional)
T2	Temporary Crash Cushion, Sand Filled (Shoulder Installations)
T3A	Temporary Railing (Type K)
T3B	Temporary Railing (Type K)
BRIDGE DETAILS	
B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
RETAINING WALLS	
RSP B3-1A	Retaining Wall Type 1 (Case 1)
RSP B3-5	Retaining Wall Details No. 1
B3-6	Retaining Wall Details No. 2
JOINT SEALS	
B6-21	Joint Seals (Maximum Movement Rating = 2")
BOX GIRDER DETAILS	
B7-1	Box Girder Details
CAST-IN-PLACE PRESTRESSED GIRDER	
B8-5	Cast-In-Place Prestressed Girder Details
CHAIN LINK RAILING, CABLE RAILING AND TUBULAR HAND RAILING	
RSP B11-47	Cable Railing
BRIDGE CONCRETE BARRIERS	
B11-54	Concrete Barrier Type 26
COMMUNICATION AND SPRINKLER CONTROL CONDUITS (BRIDGE)	
B14-3	Communication and Sprinkler Control Conduits (Conduit Less Than 4")
ROADSIDE SIGNS	
RS1	Roadside Signs, Typical Installation Details No. 1
RS2	Roadside Signs - Wood Post, Typical Installation Details No. 2
RS4	Roadside Signs, Typical Installation Details No. 4
ELECTRICAL SYSTEMS - LEGEND, NOTES AND ABBREVIATIONS	
ES-1A	Electrical Systems (Legend, Notes and Abbreviations)

9 PAYMENT

Add to section 9-1.16C:

The following items are eligible for progress payment even if they are not incorporated into the work:

1. Prestressing Cast-In-Place Concrete (in sealed package)
2. Bar reinforcing steel
3. Metal picket railing

The diagram consists of a horizontal line. Above the line, on the left side, there is a blue arrow pointing to the left, labeled with the letter 'a'. Below the line, there is a series of black triangles pointing upwards, labeled with the letter 'b'.

DIVISION II GENERAL CONSTRUCTION

12 TEMPORARY TRAFFIC CONTROL

Add to section 12-4.02A:

If work including installing, maintaining, and removing Type K temporary railing is to be performed within 6 feet of the adjacent traffic lane, close the adjacent traffic lane.

Except as listed above, closure of the adjacent traffic lane is not required for installing, maintaining, and removing traffic control devices.

For grinding and grooving operations, sawcutting concrete slabs, and installing loop detectors with an impact attenuator vehicle as a shadow vehicle, closure of the adjacent traffic lane is not required.

Designated holidays are as shown in the following table:

Designated Holidays

Holiday	Date observed
New Year's Day	January 1st
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Christmas Day	December 25th

If a designated holiday falls on a Sunday, the following Monday is a designated holiday. If November 11th falls on a Saturday, the preceding Friday is a designated holiday.

Special days are: _____.

Under a 1-way reversing traffic control operation, traffic may be stopped in 1 direction for periods not to exceed _____ minutes. After each stoppage, all accumulated traffic for that direction must pass through the work zone before another stoppage is made.

The maximum length of a single stationary lane closure is _____ miles.

Not more than ____ stationary lane closures will be allowed in each direction of travel at one time. Concurrent stationary closures must be spaced no closer than ____ miles apart.

Do not perform work on local streets between _____ and _____ and between _____ and _____.

Freeway closure charts are for the erection and removal of falsework, placement and removal of overhead sign structures, and other authorized work.

During blasting, hauling, and slide removal excavation operations, the road may be closed and traffic stopped for periods not to exceed _____ hours _____ minutes. After 1 closure is made, all accumulated traffic must pass through the work zone before another closure is allowed.

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

Personal vehicles of your employees must not be parked within the right-of-way except between _____ and _____.

Personal vehicles of your employees must not be parked within the right-of-way except in the area _____.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area as shown.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area with fluorescent orange traffic cones or portable delineators. Place the cones or delineators on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. Use at least 9 cones or delineators for the taper. Use a W20-1, "Road Work Ahead," W21-5b, "Right/Left Shoulder Closed Ahead," or C24(CA), "Shoulder Work Ahead," sign mounted on a crashworthy, portable sign support with flags. The sign must be placed as ordered by the Engineer and at least 48 by 48 inches in size. If a cone or delineator is displaced or overturned, immediately restore the device to its original position or location.

A minimum of 1 paved traffic lane not less than _____ feet wide must be open for use by traffic in each direction of travel.

A minimum of 1 paved traffic lane not less than _____ feet wide must be open for use by traffic.

If a connector closure is required within the limits of a freeway lane closure, complete the work on the connector first. Then, complete the work on the freeway traveled way necessary to ensure safe passage of traffic between the connector and open freeway lanes. Complete the remaining work only after reopening the connector.

Bridges, embankments, falsework, or other temporary work constructed within the limits of the usable channel of _____ must be provided with 1 opening for the passage of small boats. The opening must have a horizontal clearance of not less than 20 feet measured normal to the direction of flow and a vertical clearance of not less than 8 feet measured from the normal water elevation. The opening and the approach channels must be marked under 14 CA Code of Regs § 7000 et seq.

Replace "Reserved" in section 12-4.02D with:

Only State forces will close the lanes for the hours shown in the lane requirement charts.

The full width of the traveled way must be open to traffic when construction activities are not actively in progress.

Equipment and materials must not remain in a lane unless the lane is closed to traffic and is used for Contract activities.

For toll bridges, lane closure procedures must comply with the following:

1. State forces will furnish, locate, and remove all signs, barricades, traffic cones, flag trees, and other devices required for lane closures. Bidders may examine the "Lane Closure Plan" at the Administration Building for the _____ Bridge for traffic device information.
2. Time required for State forces to furnish, locate, and remove all traffic devices for lane closures is included within the time periods when lane closures are allowed.

3. Department-furnished signs, barricades, traffic cones, flag trees, and other traffic devices must be maintained.
4. For night lane closures, furnish, locate, and when no longer required, remove the truck- or trailer-mounted flashing arrow sign. The flashing arrow sign must be located approximately 50 feet in advance of each work area.

If a lane is closed for construction activities and opening the lane becomes necessary for use by traffic, immediately stop active Contract activities and start clearing the lane.

Your vehicles are subject to the provisions under chapter 13, "Vehicular Crossings," of the Vehicle Code.

Do not make lane closures if the atmospheric visibility is less than 1,000 feet.

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DIVISION III GRADING

19 EARTHWORK

Replace "Reserved" in section 19-3.03A with:

Replace item 3 in the 9th paragraph of section 19-3.03K with:

Add to section 19-3.04:

Structure excavation for footings [for retaining walls](#) at locations not shown as structure excavation (Type [H](#)) is paid for as structure excavation ([retaining wall](#)).

Pervious backfill material placed within the limits of payment for bridges is paid for as structure backfill (bridge). Pervious backfill material placed within the limits of payment for retaining walls is paid for as structure backfill (retaining wall).

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DIVISION IV SUBBASES AND BASES

DIVISION V SURFACINGS AND PAVEMENTS

DIVISION VI STRUCTURES

51 CONCRETE STRUCTURES

Add to section 51-1.01C(1):

If the methacrylate crack treatment is performed within 100 feet of a residence, business, or public space, submit a public safety plan that includes the following:

1. Public notification letter with a list of delivery and posting addresses. The letter must describe the work to be performed and state the treatment work locations, dates, and times. Deliver the letter to residences and businesses within 100 feet of overlay work and to local fire and police officials not less than 7 days before starting overlay activities. Post the letter at the job site.
2. Airborne emissions monitoring plan. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan. The plan must have at least 4 monitoring points including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during overlay activities.
3. Action plan for protecting the public if levels of airborne emissions exceed permissible levels.
4. Copy of the CIH's certification.

After completing methacrylate crack treatment activities, submit results from monitoring production airborne emissions as an informational submittal.

Replace the 1st paragraph in section 51-1.03F(5)(b)(i) with:

Except for bridge widenings, texture the bridge deck surfaces longitudinally by grinding and grooving.

Add to section 51-1.03G(1):

The [brick](#) concrete surface texture must match the texture, color, and pattern of the referee sample available for inspection by bidders at [Bridge Architecture and Aesthetics, Division of Engineering Services, California Department of Transportation, 1801 30th Street, Sacramento, CA 95816](#).

Add to section 51-1.04:

Payment for _____ texture is included in the payment for _____.

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59 PAINTING

Add to section 59-6.03:

The painted concrete must match color [of the referee sample under section 51-1.03G](#).

DIVISION VII DRAINAGE

DIVISION VIII MISCELLANEOUS CONSTRUCTION

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74 PUMPING EQUIPMENT AND CONTROLS

Replace section 74-2.02C(3) with:

74-2.02C(3) Louvers

Louvers must be continuous channel frame with nonvision, inverted Y blades. Louvers must:

1. Have the frame fabricated from 18-gauge electro-galvanized steel
2. Have dual 12 gauge security grilles with through bolted screws on the inside
3. Have bronze insect and bird screen in removable frame fastened on the inside
4. Be factory primed and finished with enamel or powder coated epoxy

Add item7 to the list in the 1st paragraph of section 74-3.01C(2):

7. Starter Panels

Replace "Reserved" in section 74-3.02B(2) with:

Service pedestals must be tamper resistant, Type 3R enclosures with:

1. Underground pull section
2. Service disconnect compartment
3. Meter compartment
4. Power transfer section

Service pedestals must be constructed with:

1. 12-gauge exterior sheet steel and 14-gauge interior sheet steel
2. Baked enamel or baked thermosetting polyester exterior finish
3. Stainless steel hardware, including screws, latches, hasps, hinge pins, and similar items
4. Rotary action power transfer switch that operates with the exterior door open and the interior deadfront door closed.
5. Service disconnect switch that operates with the exterior door open and the interior deadfront door closed

Service disconnect switches must be 3-pole, 240-volt, 225-ampere frame, 200-ampere trip, molded case circuit breakers with the following features:

1. Adjustable AC magnetic trip set to ____ amperes
2. Interrupting capacity of 65,000 amperes Symmetrical at 240 volts
3. Handle that is lockable with a padlock in the "OFF" position

Rotary action power-transfer switch must be 3-pole, 2-position, 240-volt, 200-ampere frame, rotary type switch having either a fourth pole or an auxiliary normally open contact rated 10 amperes at 120 volts.

Standby power receptacle must be circuit breaking, weather resistant, rain tight receptacle with male interior assembly. The male interior assembly must be 4-pole, 3-wire male assembly rated for 200 amperes at 600 volts. The standby power receptacle must include an AJ back box and angle adapter with either (1) screw-on dust cover and chain, or (2) self-closing, spring actuated cover.

Standby power receptacles must be compatible with the Department's standby power plug, Crouse-Hinds, Catalog No. AP20468-S22 with female interior assembly.

Replace the title of section 74-3.02B(3) with:

Pump Station Electrical and Control Equipment

Replace the 5th paragraph of section 74-3.02B(3) with:

Pilot lights must be panel mounted, 120-volt, 30.5mm high-visibility LEDs with colored plastic lens and screw cap.

Replace the first sentence in paragraph 10 of section 74-3.02B(3) with:

Terminal blocks must comply with NEMA ICS 4 and be:

Add paragraph 11 to section 74-3.02B(3) with:

Power switch must be 3-pole, 240 volt, 225-ampere frame, 200-ampere trip, molded case circuit breaker in a NEMA 1 enclosure.

Power switch must:

1. Have an adjustable AC magnetic trip and inverse time-current characteristics.
2. Have an interrupting capacity of 65,000 amperes symmetrical at 240 volts
3. Be operable by a toggle type handle and pad-lockable in the "OFF" position

Add paragraph 12 to section 74-3.02B(3) with:

Phase Fail Relay Disconnect (PFRD)

Phase failure relay disconnects must be 3-pole, 240-volt, 100-ampere frame, 15-ampere trip, molded case circuit breakers. Disconnects must have an interrupting capacity of 25,000 amperes symmetrical at 240 volts.

Add paragraph 13 to section 74-3.02B(3) with:

Phase failure relays must be adjustable, automatic reset, voltage sensing relays. Relays must:

1. Be panel mounted
2. Have 2 SPDT, 10-ampere, 120-volt contacts
3. Have a LED that indicates the relay is energized
4. Sense phase loss, phase unbalance, and phase reversal

Add paragraph 14 to section 74-3.02B(3) with:

Motor Starter Panel (ST)

Motor starter panel shall be factory assembled with a starter, current switch, time meter, selector switch, pilot light, control relay (2NO, 2NC contacts), and terminal blocks for interconnect wiring within the panel as well as wiring between the starter panel and devices external to it (ie: control panel, indicating light, etc.).

1. 120-volt coil and double-break silver alloy contacts
2. 3 auto-reset, thermal overloads
3. 2 auxiliary contacts, 1 normally-closed and 1 normally-open
4. Overloads that trip between 115 and 125 percent of full load motor nameplate amperage
5. One normally closed and one normally open auxiliary contacts.

The seal failure relay, complete with separate pump leak indicator light, sensor probe continuity test push button and test indicator light, shall be a factory assembled unit. Relay shall include one normally-open and one normally-closed contact rated for 120 volts.

Not Used

Not Used

